



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Chung, et al.

Serial No.: 09/965,370

Confirmation No.: Unknown

Filed: September 26, 2001

For: Integration of Barrier Layer
and Seed Layer

Group Art Unit: Unknown

Examiner: Unknown

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

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TC 1700

CERTIFICATE OF MAILING
37 CFR 1.8

I hereby certify that this correspondence is being deposited on April 17, 2002 with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

4/17/02

Date

Jill Patterson

Signature

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

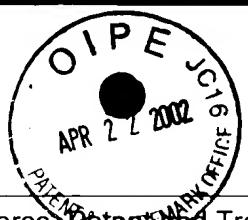
While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56 exists.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/APPM/6303/BTP.

Respectfully submitted,

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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No.		Serial No.
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					APPM/6303		09/965,370
<i>RECEIVED</i>					Applicant		Confirmation No.:
					Chung, et al.		Unknown
(Use several sheets if necessary)					Filing Date		Group
	Examiner Unknown	<i>APR 23 2002</i> <i>IC 1700</i>		September 26, 2001		Unknown	
U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
A1	4,813,846	03/21/89	Helms	414	744.1	04/29/87	
A2	4,917,556	04/17/90	Stark et al.	414	217	05/26/89	
A3	4,951,601	08/28/90	Maydan, et al.	118	719	06/23/89	
A4	5,000,113	03/19/91	Wang et al.	118	723	12/19/86	
A5	5,186,718	02/16/93	Tepman et al.	29	25.01	04/15/91	
A6	5,205,077	04/27/93	Wittstock	51	165 R	08/28/91	
A7	5,234,561	08/10/93	Randhawa et al.	204	192.38	08/25/88	
A8	5,259,881	11/09/93	Edwards, et al.	118	719	05/17/91	
A9	5,286,296	02/15/94	Sato et al.	118	719	01/09/92	
A10	5,609,689	03/11/97	Kato et al.	118	719	06/03/96	
A11	5,667,592	09/16/97	Boitnott et al.	118	719	04/16/96	
A12	5,674,786	10/07/97	Turner et al.	437	225	06/05/95	
A13	5,695,564	12/09/97	Imahashi	118	719	08/03/95	
A14	5,730,801	03/24/98	Tepman et al.	118	719	08/23/94	
A15	5,788,447	08/04/98	Yonemitsu et al.	414	217	08/05/96	
A16	5,788,799	08/04/98	Steger, et al.	156	345	06/11/96	
A17	5,801,634	09/01/98	Young et al.	340	635	09/08/97	
A18	5,856,219	01/05/99	Naito et al.	438	241	08/18/97	
A19	5,866,213	02/02/99	Foster et al.	427	573	07/19/97	
A20	5,866,795	02/02/99	Wang et al.	73	1.36	03/17/97	
A21	5,882,165	03/16/99	Maydan et al.	414	217	09/10/97	

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U.S. Patent Documents						
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A24	6,051,286	04/18/00	Zhao et al.	427	576	08/22/97
A25	6,062,798	05/16/00	Muka	414	416	06/13/96
A26	6,071,808	06/06/00	Merchant et al.	438	633	06/23/99
A27	6,084,302	07/04/00	Sandhu	257	751	12/26/95
A28	6,086,677	07/11/00	Umotoy et al.	118	715	06/16/98
A29	6,110,556	08/29/00	Bang, et al.	428	64.1	10/17/97
A30	6,117,244	09/12/00	Bang, et al.	118	715	03/24/98
A31	6,140,237	10/31/00	Chan et al.	438	687	04/19/99
A32	6,140,238	10/31/00	Kitch	438	687	04/21/99
A33	6,143,659	11/07/00	Leem	438	688	08/27/98
A34	6,144,060	11/07/00	Park et al.	257	310	07/31/98
A35	6,158,446	12/12/00	Mohindra et al.	134	25.4	09/04/98
A36	6,206,967	03/27/01	Mak, et al.	118	666	06/14/00
A37	6,271,148	08/07/01	Kao et al.	438	727	10/13/99
A38	2001/0041250	11/15/01	Werkhoven et al.	428	212	03/06/01
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B 24 64-082671 J3 28 1989 H01L 29/78

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Examiner				Date Considered				

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Sheet 7 of 11 sheet(s)

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	Examiner Unknown				

Foreign Patent Documents

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B119 07-070752 03/14/1995 JP C23C 16/40

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**Foreign Patent Documents**

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
	B120	07-086269	03/13/1995	JP	H01L	21/314	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B121	07-086269	03/13/1995	JP	H01L	21/314	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B122	08-181076	07/12/1996	JP	H01L	21/205	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B123	08-245291	09/24/1996	JP	C30B	25/14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	B126	10-188840	07/21/1998	JP	H01J	29/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	B129	11-269652	10/05/1999	JP	C23C	16/44	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	B141	2001-152339	06/05/2001	JP	C23C	16/40	<input type="checkbox"/>	<input type="checkbox"/>

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B144	2001-217206	08/10/2001	JP	H01L	21/285	<input type="checkbox"/>	<input type="checkbox"/>
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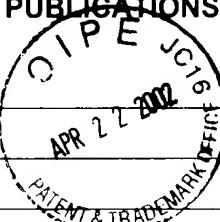
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**OTHER ART**

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C1	Ohba, et al., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149
	C2	Scheper, et al., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157
	C3	Suzuki, et al., "A 0.2-μm contact filing by 450°C-hydrazine-reduced TiN film with low resistivity", IEDM 92-979, pp. 11.8.1 – 11.8.3
	C4	Suzuki, et al., "LPCVD-TiN Using Hydrazine and TiCl ₄ ", VMIC Conference (June 8-9, 1993), pp. 418-423
	C5	IBM Tech. Disc. Bull. "Knowledge-Based Dynamic Scheduler in Distributed Computer Control, (June 1990), pp. 80-84
	C6	IBM Tech. Disc. Bull. "Multiprocessor and Multitasking Architecture for Tool Control of the Advanced via Inspection Tools" (May 1992), pp. 190-191
RECEIVED APR 23 2002 TC 1700	C7	McGeachin, S., "Synthesis and properties of some β-diketimines derived from acetylacetone, and their metal complexes", Canadian J. of Chemistry, Vol. 46 (1968), pp.1903-1912
	C8	Solanki, et al., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480
	C9	NERAC.COM Retro Search: Atomic Layer Deposition of Copper, dated October 11, 2001
	C10	NERAC.COM Retro Search: Atomic Layer Deposition / Epitaxy Aluminum Oxide Plasma, dated October 2, 2001
	C11	NERAC Search abstract of "Atomic Layer deposition of Ta and Ti for Interconnect Diffusion Barriers", by Rossnagel, et al., J. Vac. Sci. & Tech., 18(4) (July 2000)
	C12	Abstracts of articles re atomic layer deposition
	C13	Abstracts of search results re atomic layer deposition, search dated January 24, 2002

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OTHER ART			
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	C16	Abstracts of articles – atomic layer deposition	
	C17	NERAC Search – Atomic Layer Deposition, search dated October 16, 2001	
	C18	Bader, et al., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154	
	C19	Choi, et al., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	
	C20	Choi, et al., "Stability of TiB ₂ as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067	
	C21	"Cluster Tools for Fabrication of Advanced devices" Jap. J. of Applied Physics, Extended Abstracts, 22 nd Conference Solid State Devices and Materials (1990), pp. 849 – 852 XP000178141	
	C22	"Applications of Integrated processing", Solid State Technology, US, Cowan Pub., Vol 37, No. 12 (December 1, 1994), pp. 45-47	
	C23	Kitigawa, et al., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34	
	C24	Lee, et al., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2 (COPY NOT AVAILABLE TO APPLICANT AT THIS TIME)	
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